

Corrected draft
by Test Director
January 27, 1948
Note: Changes are
indicated in parenthesis.

23 December 1947

ANNEX "A"

RADIOLOGICAL SAFETY PLAN

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1. Radiological Safety of all military and civilian personnel is a command responsibility.
2. The Radiological Safety Officer has staff responsibility for the radiological safety of all personnel and in fulfillment of this mission he reports directly to the Task Force Commander. In the accomplishment of his mission he will:
 - (a) Inform the Task Force Commander as to radiological hazards involved which may cause injury or sickness to personnel. A brief discussion of the hazards resulting from an atomic bomb explosion is included in Appendix 1. Safety precautions are contained in Appendix 2.
 - (b) Advise Task Force Commander as to safe employment of personnel in radioactive areas.
 - (c) Prepare instructions outlining the precautions necessary for protection of personnel against such hazards.
 - (d) Re-evaluate the hazards of radioactive areas as radiological survey work progresses.
 - (e) Advise Task Force Surgeon as to diagnosis and treatment of illness or injury resulting from or associated with exposure to radioactivity.
3. Task Group 7.6 is charged with effecting radiological safety of all personnel. In accomplishment of this mission, Commander, Task Group 7.6 will:
 - (a) Organize and command a Joint Radiological Safety Group composed of radiological safety monitors and supporting personnel.
 - (b) Support all operations in radioactive areas by supplying radiological monitors and equipment.
 - (c) Effect radiological safety regulations and report infractions thereof.
 - (d) Detect and determine intensity and types of radioactivity encountered in all radiological areas.

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CLASSIFICATION CANCELLED

BY AUTHORITY OF DAE 5450.2, III-12 (ADMIN)

RY Gene Spay DATE 1/29/81

BY William C. Crandall DATE 2/2/87

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(c) Organize and supervise decontamination of personnel as necessary. Department of Energy

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4. Regulations. The following regulations will govern for the safety of all personnel entering areas containing radioactivity or working with radioactive materials:

- (a) All such persons shall, prior to departure from the United States, receive a complete physical examination including chest X-ray, blood count and urinalysis; and reports of such examination shall be in the hands of the Radiological Safety Officer prior to departure. Prior to final release from the Task Force, personnel shall undergo such further physical examinations as the Radiological Safety Officer may specify.
- (b) The permissible radiological exposure is established at 0.1 roentgens per 24 hours. Under unusual circumstances, the Scientific Director and the Radiological Safety Officer may authorize a total exposure up to 3 roentgens with the provision that such persons will be prohibited from further exposure for a period of 30 days.
- (c) In the event that any person is found to have exceeded such total exposure he shall be denied access to radioactive areas until specifically cleared by CJTF-7 on advice from the Radiological Safety Officer.
- (d) Work in contaminated areas is divided into two general classifications, namely, urgent work and routine work. Urgent work will be authorized by the Task Force Commander on request of the (Test) Director. Urgent work of this nature may be conducted during a period immediately following each shot. Upon accomplishment of the special missions required by this urgent work, further entry into contaminated areas will be discontinued until a comprehensive radiological survey has been accomplished. This will consist of a survey of both land and air. No routine work will be commenced until this survey indicates acceptable working conditions.
- (e) Names of all individuals who are expected to enter radioactive areas will be submitted to the Commander of Task Group 7.6 (Joint Radiological Safety Group) in the form of an eligibility list two weeks prior to the test. Commander Task Group 7.6 will prepare appropriate cards on all such personnel. In addition, a Control list containing the names of any persons who expect to enter a contaminated area on a specific day will be submitted (to CTG 7.6) on the preceding evening. Commander Task Group 7.6 will report to the Task Force Commander (with copies to Test Director and Scientific Director) the names of any persons who are disqualified for such entry by reason of previous radiological exposure.
- (f) All individuals or parties entering contaminated areas shall be accompanied by monitors supplied by the Radiological Safety Group. Monitors will inform persons in charge of parties which they accompany of the radiological hazards involved and when radiation tolerance has been reached. Findings of the Radiological Monitor relative to radiological hazards must be accepted.

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- (g) Prior to debarkation on a contaminated island, the monitor will check all personnel against the Control List. He will issue appropriate equipment. This special equipment will include film badges, dosimeters, and such protective clothing as may be required. In the case of urgent work parties, this equipment will also include gas masks for all personnel which will be worn if the monitor deems necessary. Upon completion of work in the contaminated zone, all persons will be required to surrender film badges and dosimeters to the monitors and will dispose of booties and gloves prior to re-embarkation as directed. The monitor shall monitor clothing of all personnel and require contaminated personnel to disembark at the Radiological Safety Ship when conditions warrant.
- (h) No eating, drinking, or smoking is permitted in any radioactive areas until such area has been formally cleared by CJTF-7 (and Test Director) upon advice of the Radiological Safety Officer. Furthermore, no eating, drinking, or smoking by any person who has been in a radioactive area will be permitted until the Radiological safety monitor has found that person to be uncontaminated.
- (i) Upon completion of work in radioactive areas all dosimeters and film badges will be read and results recorded. A report of such results by the Commander of Task Group 7.6 to the Task Force Commander, with copies to (Test Director and) Scientific Director, will show names of all persons receiving radiation in excess of 0.1 roentgens on any day of operations and indicate thereon the total (accumulated) radiation received by such persons to date.
- (j) (All islands in the atoll, except Eniwetok and Parry Island, will be considered contaminated until reported clear by the Radiological Safety Officer.)
- (k) Procedures for obtaining services of monitors will be issued as appropriate.
5. AIR STATIONS. Appropriate radiological monitor units of Task Group 7.6 will be established at air stations which may be expected to handle radioactive materials or service (contaminated) aircraft. Such units will provide monitors to any manned aircraft which are destined to enter or closely approach radioactive areas. The unit leader will advise CTF 7.4 concerning radiological safety precautions. The Task Force Radiological Safety Officer will assist appropriate Task Group Commanders in preparing specific instructions for work of this nature.
6. DISASTER PARTY. A disaster party will be formed from certain personnel of the Joint Radiological Safety Group. During periods specified by the Task Force Commander, this party shall be assembled near the zero site with the objective of assisting injured personnel in the event of disaster.
7. RADIOACTIVE MATERIALS: Transportation of radioactive materials out

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of the test areas must be in accordance with Atomic Energy Commission Regulations for transportation of radioactive materials (AEC Regulations - Safety No. 3 - Standard Safety Requirements, Part 14). Prior to transportation, all such materials shall be monitored by representatives of Task Group 7.6. (Authority to remove, out of the test area, samples of radioactive material *dittoed* which resulted from or were exposed to the ~~deterioration~~ shall be obtained from the Test Director and shall comply with security requirements.)

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